

SITE INSPECTION WORK PLAN

FOR

Wisconsin Steel

EPA Region 5 Records Ctr.



357072

PREPARED BY

PRE-REMEDIAL UNIT
DIVISION OF LAND POLLUTION CONTROL
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
2200 CHURCHILL ROAD
SPRINGFIELD, ILLINOIS 62794

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 - General Information
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 - Site Description
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 - Personal Protection
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- III. FIELD ACTIVITIES
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- IV. SAMPLING
 - Procedures
 - Locations
 - Analysis
- V. ATTACHMENTS
 - Documents Generated
 - Site Map

RECEIVED
APR 26 1993

SITE ASSESSMENT SECTION

I. SITE INFORMATION

I. GENERAL

Site Name: Wisconsin Steel ILD# 000849737

Site Location: Chicago, Illinois LPC# 0316510002

Workplan prepared by:

Scott Davis

Estimated inspection date: 4/27-29/93 Workplan approved by:

II. THE ASSIGNMENT (briefly describe the objectives of the inspection and how they are going to be accomplished).

The purpose of a this Site Inspection is to document site contamination, document the migration pathways contaminants may be transported, and to document affected targets. Soil, sediment, groundwater, and surface water samples will be collected during the inspection for analysis. The objectives for the Site Inspection performed at the Wisconsin Steel site are to attain the necessary information to score the facility for the NPL as soon as possible.

III. SITE DESCRIPTION (briefly describe the site, including location, unique geological features, source(s) of contamination, methods of disposal and current status of activities).

Wisconsin Steel is located at the intersection of Torrence Street and 106th Street. The facility operated an integrated steel mill operating from approximately 1877 until 1980. Production facilities used at Wisconsin Steel include a coke battery, blast furnaces, steel production open hearth furnaces and steel finishing blooming and merchant mills.

The site is currently abandoned with only a few original building still standing. There are several piles of rubble mixed with soil dispersed over the site. The Calumet River borders the site on the east side with two slips, for barge loading, extending into Wisconsin Steel property.

Slag from the facility was taken to property north of the main facility and piled. Currently the pile is approximately 1500 feet long and approximately 250 feet wide.

IV. SITE HISTORY (briefly describe the history of the site including previous owners, reported injuries, complaints, gov't action).

Wisconsin Steel was in operation from approximately 1877 until 1980. There have been several financial organizations involved in owning and operating the facility. The more significant are International Harvester (now Navistar Corp.), Envirodyne Corporation, and the Economic Development Administration (EDA). International Harvester owned and operated the facility until 1977 when it sold the majority of the facility to the Envirodyne Corporation. The Economic Development Administration became involved by guaranteeing a loan to the Envirodyne Corp. On March 31, 1980, Envirodyne filed for bankruptcy and EDA took control of the facility and shutdown the facility.

Currently the EDA owns 90% of the facility and International Harvester (Navistar) owns 10%.

II. SAFETY CONSIDERATIONS

I. PHYSICAL HAZARDS AT SITE (briefly describe any physical hazards that the inspection team may encounter at the site).

Physical hazards at the site include possible unstable surfaces around the excavations and debris piles. There is also a danger of falling into the Calumet River when taking samples from the river.

II. CHEMICAL HAZARDS AT SITE (briefly identify those chemicals that are known or are suspected to be present, include their state and physical characteristics).

There are several contaminants that have been found on site. Metals have been found in the soil and in sediments in excavations. These metals include lead, zinc, mercury, cyanide, sulfide, copper, manganese, chromium and arsenic. PCBs have also been found on-site. Semivolatiles have been found in the soils including acenaphthylene, acenaphthene, fluorene, phenanthrene anthracene and several others. Volatiles have also been found on-site in groundwater and sediment including, but not limited to, benzene, toluene and xylene.

III. DERMAL AND RESPIRATORY PROTECTION (identify the level of personal protection that will be used, including anticipated modifications).

A cyanide meter, sulfide meter and a hnu will be used as air monitoring at all times while the sampling team is on the site. When sampling soil and groundwater, samplers will be in Level C with potential upgrade to Level B in conditions arise.

Level D.....Background

Level C.....Background to 5 mu

Level B.....6 to 50 mu

Level A.....51 and above

IV. EMERGENCY INFORMATION

Nearest Hospital: S. Chicago Comm. Hosp. Phone 312/978-2000

Hospital Location: corner of 93rd & Yates

Ambulance Service: S. Chicago Comm. Hosp. Phone 312/978-2000

Fire Service: Chicago Fire Dept. Phone 911

Police: Chicago Police Dept. Phone 911

III. FIELD ACTIVITIES

I. TEAM ASSIGNMENTS

Name	Responsibility
<u>Scott Davis</u>	<u>Project Manager</u>
<u>Ken Corkill</u>	<u>Sampler</u>
<u>Pete Sorensen</u>	<u>Sampler</u>
<u>Bruce Everett</u>	<u>Sampler</u>

II. FIELD WORK PROPOSED (check all that apply)

<u>Activity</u>	<u>Procedures</u>
<u>X</u> Ambient Air Sampling (OVA,HNU)	IEPA Methods Manual pp.19-23
<u>X</u> Groundwater Sampling	IEPA Methods Manual pp.1-5
<u>X</u> Surface Water Sampling	IEPA Methods Manual pp.6-10
<u>X</u> Soil/Sediment Sampling	IEPA Methods Manual pp.13-18

X Safety Plan

X Sampling Plan

X Equipment Checklist

X Log Book

X Chain of Custody Record

X Sample Analysis Records

X Photographs

 Drilling Logs

X Correspondence

 Personal Interview Tapes of Transcripts

X Maps

X Instrument Calibration Records

X Procurement Documents

X Site Inspection Form (2070-13)

<u> </u> Tap Water Sampling	IEPA Methods Manual pp.11-12
<u> </u> Slope Determinations	IEPA Methods Manual pp.24-25
<u> </u> Water Level Measurements	IEPA Methods Manual p.31
<u> X </u> Perimeter Survey	IEPA Methods Manual p.33
<u> X </u> Site Inspection	IEPA Methods Manual pp.34-39
<u> </u> Soil Borings/Well Installation	IEPA Methods Manual pp.26-30
<u> X </u> Public Interviews	IEPA Methods Manual p.40
<u> X </u> Decontamination Procedures	IEPA Methods Manual pp.41-56

IV. SAMPLING

I. PROCEDURES (briefly describe the procedures the inspection team will employ in their collection of environmental samples).

All samples will be collected in accordance with the Illinois Environmental Protection Agency's Site Inspection QAPP. Soil/sediment samples will be collected with stainless steel trowels, groundwater samples will be taken with teflon bailers and surface water samples will be taken using pond samplers.

II. LOCATION OF SAMPLES (identify the number of samples, their type and their location. The attached map should identify these locations).

<u>Sample #</u>	<u>Type</u>	<u>Location</u>
X101	soil	park
X102	soil	park
X103	soil	on-site
X104	soil	on-site
X105	soil	on-site
X106	soil	on-site
X107	soil	on-site
X108	soil	on-site
X109	soil	on-site
X110	soil	on-site

X111	soil	on-site
X112	soil	on-site
X113	soil	on-site
X114	soil	on-site
X115	soil	on-site
X116	soil	on-site
X117	soil	pri. yard
X118	soil	pri. yard
X119	soil	pri. yard
X120	soil	pri. yard
X121	soil	pri. yard
X122	soil	pri. yard
X123	soil	pri. yard
X124	soil	pri. yard
X125	soil	pri. yard
X201	sediment	river
X202	sediment	river
X203	sediment	river
X204	sediment	river
X205	sediment	river
X206	sediment	river
X501	waste pile	slag pile
X502	waste pile	slag pile
G101	monit. well	on-site
G202	monit. well	on-site
S101	surf. water	river
S102	surf. water	river

S103	surf. water	river
S104	surf. water	river

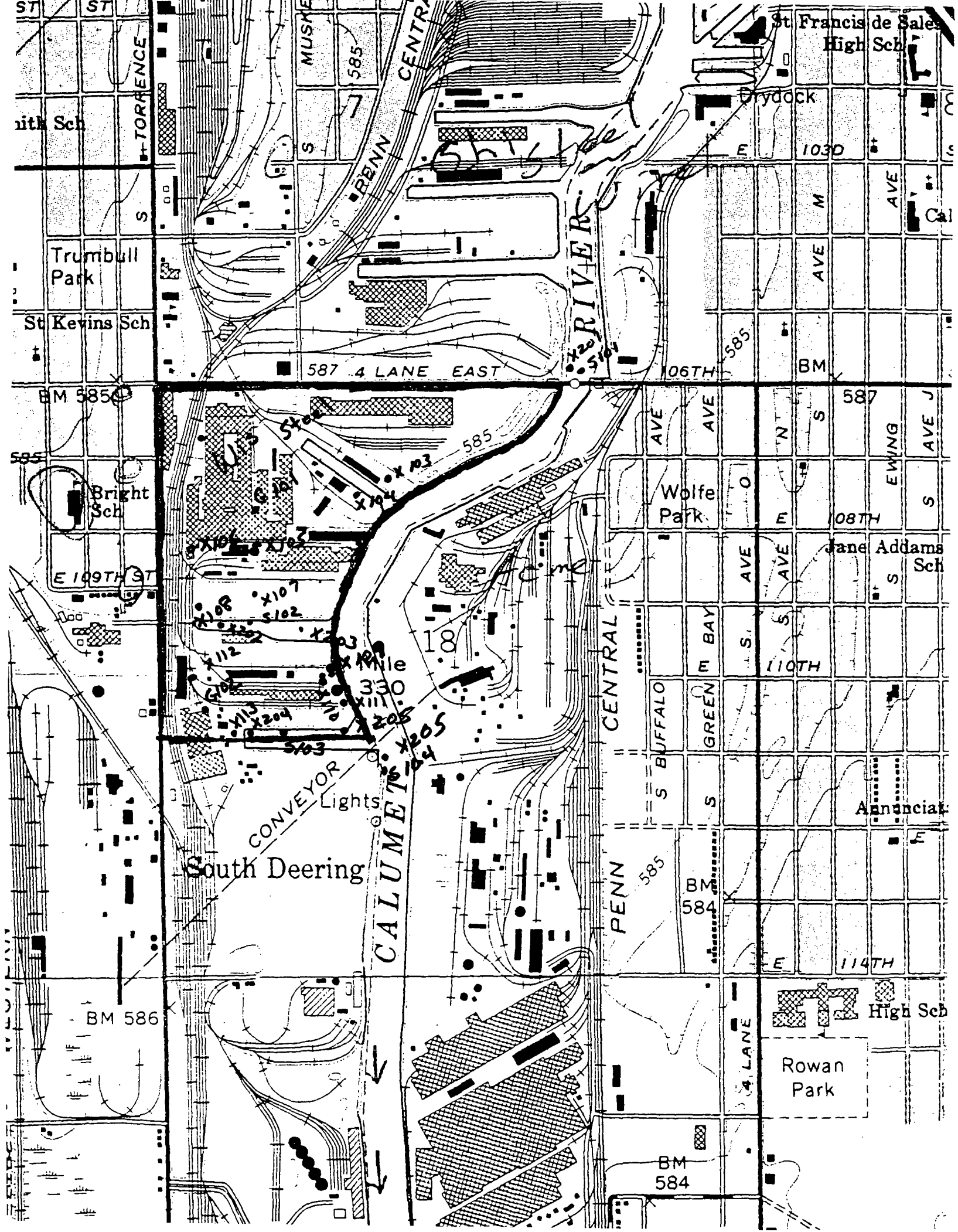
III. ANALYTICAL SERVICES (identify the laboratory that will be performing the analysis of the samples taken at the site, include requested analysis).

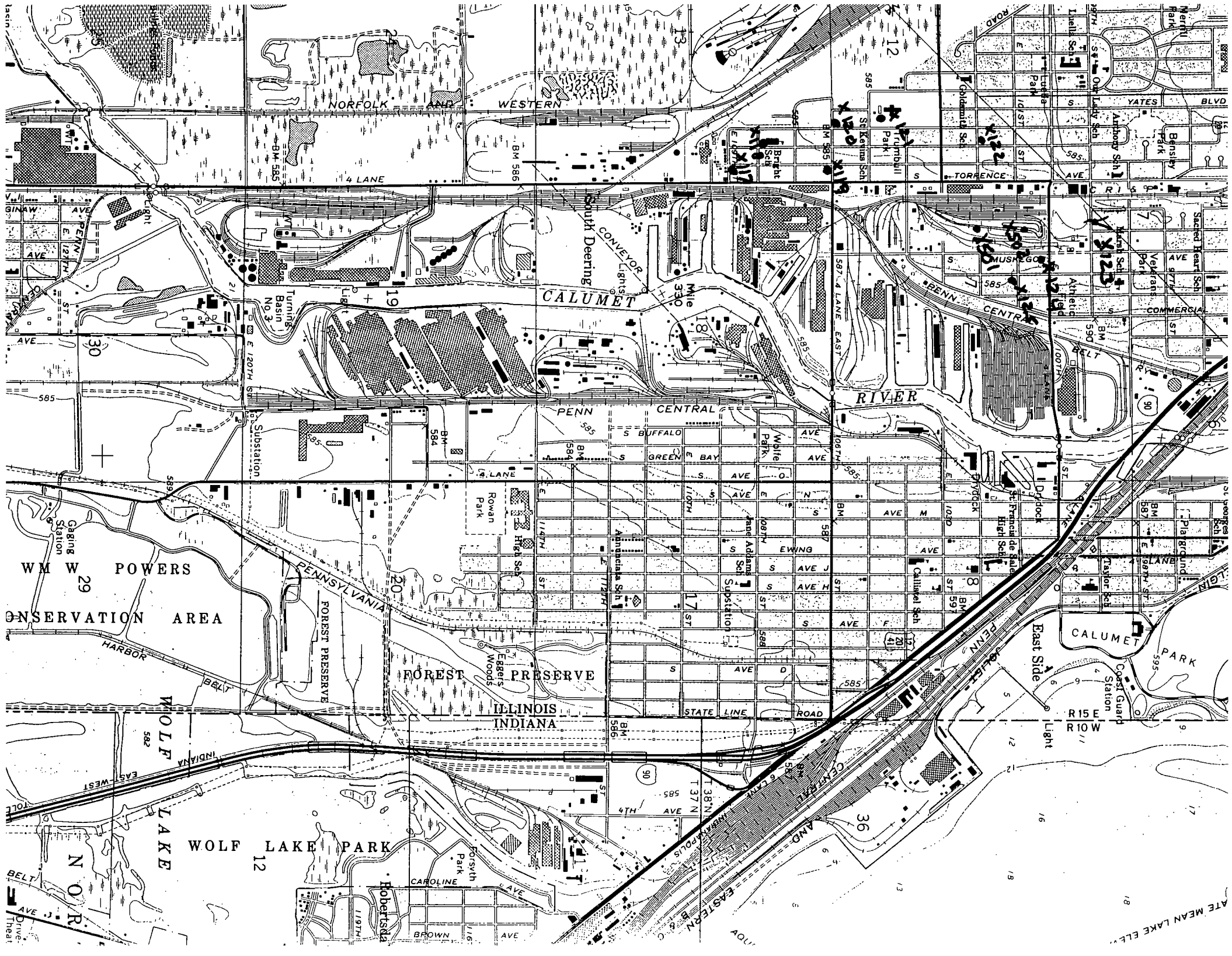
The IEPA lab will be analyzing the samples . All samples will be analyzed for the Target Compound List for the exception of samples X117-X125 will not be sampled for volatiles.

ATTACHMENT I

RECORDS AND DOCUMENTATION (check the records or documents that will be generated during this project)

X Work Plan





SITE INSPECTION WORK PLAN

FOR

Wisconsin Steel

ILD 000849737

PREPARED BY

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X116	soil	on-site
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X119	soil	pri. yard
X120	soil	pri. yard
X121	soil	pri. yard
X122	soil	pri. yard
X123	soil	pri. yard
X124	soil	pri. yard
X125	soil	pri. yard
X201	sediment	river
X202	sediment	river
X203	sediment	river
X204	sediment	river
X205	sediment	river
X206	sediment	river
X501	waste pile	slag pile
X502	waste pile	slag pile
G101	monit. well	on-site
G202	monit. well	on-site
S101	surf. water	river
S102	surf. water	river

S103	surf. water	river
S104	surf. water	river

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ATTACHMENT 1

RECORDS AND DOCUMENTATION (check the records or documents that will be generated during this project)

X Work Plan

X Log Book

X Chain of Custody Record

X Sample Analysis Records

X Photographs

 Drilling Logs

X Correspondence

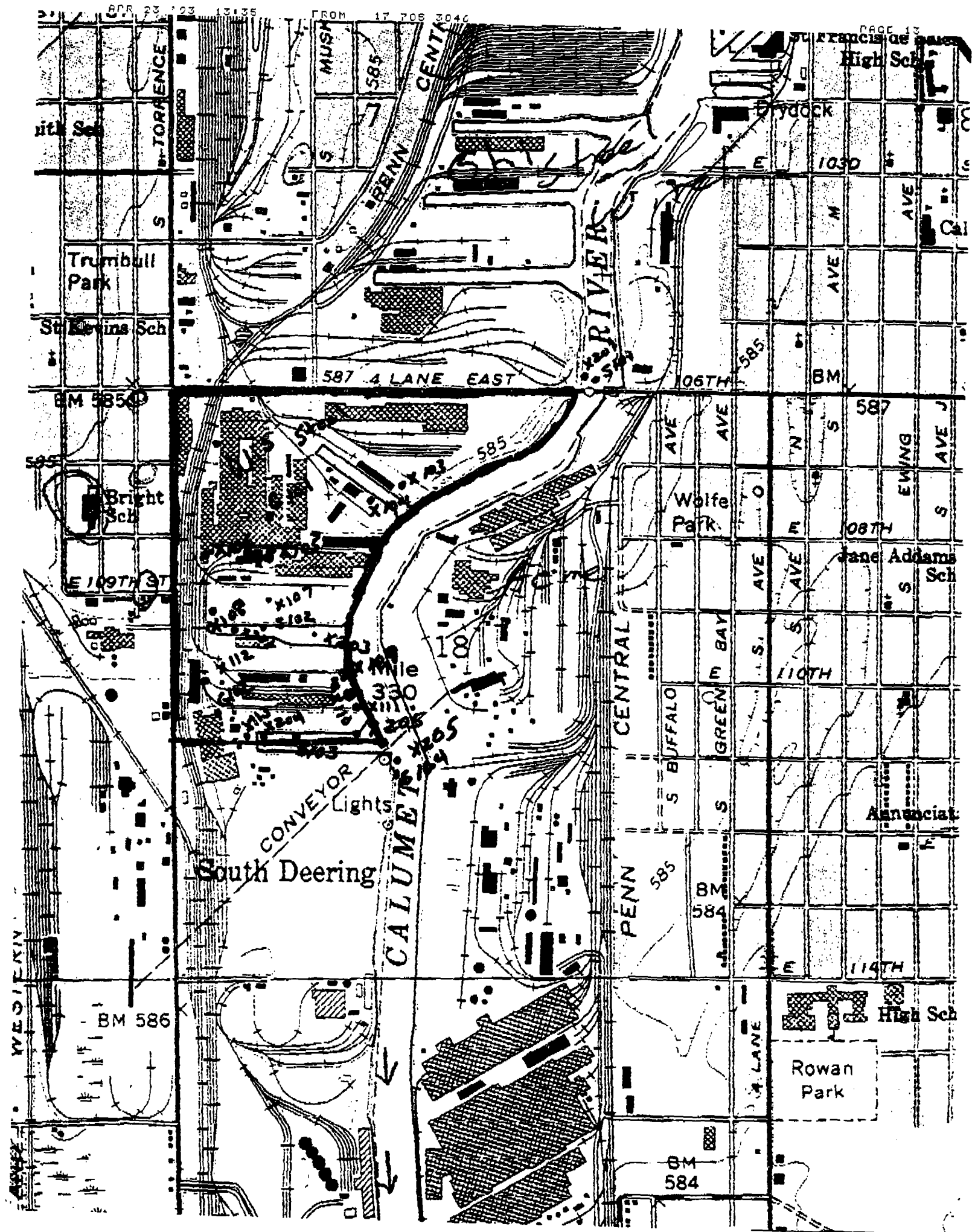
 Personal Interview Tapes of Transcripts

X Maps

X Instrument Calibration Records

X Procurement Documents

X Site Inspection Form (2070-13)





ILLINOIS
ENVIRONMENTAL
PROTECTION AGENCY



P.O. BOX 19276
2200 CHURCHILL
SPRINGFIELD, IL 62794-9276

REMEDIAL PROJECT MANAGEMENT SECTION

Date: 4/26/93

Time: 12:00

Please Deliver these 22 pages
including this cover page to:

Name: Alan Altur

Firm or Location: US EPA

Company Phone number: _____

Fax number: 312 886-0753

From: Scott Davis

EPA

Memo: Wisconsin ^{steel} Prescore

Office Phone Number: _____

If you did not receive all of the pages or pages are illegible,
please contact us at one of the following numbers as soon as possible.

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Discard

PREscore 1.0 - PRESCORE.TCL File 12/23/91
NPL Characteristics Data Collection Form
Wisconsin Steel - 04/26/93

PAGE: 1

Record Information

1. Site Name: Wisconsin Steel
(as entered in CERCLIS)
2. Site CERCLIS Number: 000849737
3. Site Reviewer:
4. Date:
5. Site Location: Chicago, Cook Co., Il.
(City/County,State)
6. Congressional District:
7. Site Coordinates: Unknown

Latitude:

Longitude:

Site Description

1. Setting: Urban
2. Current Owner: Federal
3. Current Site Status: Inactive
4. Years of Operation: Inactive Site, from and to dates: 1877-1980
5. How Initially Identified: RCRA Notification
6. Entity Responsible for Waste Generation:
 - Manufacturing
 - Inorganic Chem.
 - Primary Metal Industries
7. Site Activities/Waste Deposition:
 - Drum/Container Storage
 - Tanks - Above Ground

PREscore 1.0 - PRESCORE.TCL File 12/23/91
NPL Characteristics Data Collection Form
Wisconsin Steel - 04/26/93

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Waste Description

8. Wastes Deposited or Detected Onsite:

- Organic Chemicals
- Inorganic Chemicals
- Acids/Bases
- Metals
- Lead
- PCBs

Response Actions

9. Response/Removal Actions:

- Other Removal Action Has Occurred

RCRA Information

10. For All Active Facilities, RCRA Site Status:

- -Treatment, Storage & Disposal Facility
- -90 Day Accumulator

Demographic Information

11. Workers Present Onsite: Yes

12. Distance to Nearest Non-Worker Individual: > 10 Feet - 1/4 Mile

13. Residential Population Within 1 Mile: 0.0

14. Residential Population Within 4 Miles: 0.0

Water Use Information

15. Local Drinking Water Supply Source:

- No Water Withdrawals Within Target Distance Limits

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NPL Characteristics Data Collection Form
Wisconsin Steel - 04/26/93

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16. Total Population Served by Local Drinking Water Supply Source: Unknown
17. Drinking Water Supply System Type for Local Drinking Water Supply Sources:
- Unknown
18. Surface Water Adjacent to/Draining Site:
- Contaminated River

PREscore 1.0 - PRESCORE.TCL File 12/23/91
HRS DOCUMENTATION RECORD
Wisconsin Steel - 04/26/93

PAGE: 1

1. Site Name: Wisconsin Steel
(as entered in CERCLIS)
2. Site CERCLIS Number: 000849737
3. Site Reviewer:
4. Date:
5. Site Location: Chicago, Cook Co., Il.
(City/County, State)
6. Congressional District:
7. Site Coordinates: Unknown

Latitude:

Longitude:

	Score
Ground Water Migration Pathway Score (Sgw)	0.00
Surface Water Migration Pathway Score (Ssw)	100.00
Soil Exposure Pathway Score (Ss)	100.00
Air Migration Pathway Score (Sa)	0.00
Site Score	70.71

NOTE

EPA uses the terms "facility," "site," and "release" interchangeably. The term "facility" is broadly defined in CERCLA to include any area where hazardous substances have "come to be located" (CERCLA Section 109(9)), and the listing process is not intended to define or reflect boundaries of such facilities or releases. Site names, and references to specific parcels or properties, are provided for general identification purposes only. Knowledge regarding the extent of sites will be refined as more information is developed during the RI/FS and even during implementation of the remedy.

PREscore 1.0 - PRESCORE.TCL File 12/23/91
WASTE QUANTITY
Wisconsin Steel - 04/26/93

PAGE: 2

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: cont. soil

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

PREscore 1.0 - PRESCORE.TCL File 12/23/91
WASTE QUANTITY
Wisconsin Steel - 04/26/93

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2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID	cont. soil
b. Source Type	Contaminated Soil
c. Secondary Source Type	N.A.
d. Source Volume (yd3) Source Area (ft2)	0.00 2613600.00
e. Source Volume/Area Value	7.69E+01
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)	0.00E+00
g. Data Complete?	NO
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)	0.00E+00
i. Data Complete?	NO
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)	7.69E+01

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Arsenic	< 2	NO	8.4E+00	ppm
Barium	< 2	NO	2.1E+00	ppm
Benzene	< 2	NO	3.8E+00	ppm
Bis (2-ethylhexyl) phthalate	< 2	NO	1.1E+00	ppm
Cadmium	< 2	NO	3.5E+00	ppm
Chromium	< 2	NO	1.3E+00	ppm
Cyanide	< 2	NO	8.0E+00	ppm
Di-n-butyl phthalate	< 2	NO	8.0E+00	ppm
Lead	< 2	NO	2.8E+00	ppm
Phenanthrene	< 2	NO	3.6E+00	ppm
Phenol	< 2	NO	2.5E+00	ppm

PREscore 1.0 - PRESCORE.TCL File 12/23/91
WASTE QUANTITY
Wisconsin Steel - 04/26/93

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1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: waste pile

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

PREscore 1.0 - PRESCORE.TCL File 12/23/91
 WASTE QUANTITY
 Wisconsin Steel - 04/26/93

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2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID	waste pile
b. Source Type	Waste Pile
c. Secondary Source Type	N.A.
d. Source Volume (yd3) Source Area (ft2)	0.00 375000.00
e. Source Volume/Area Value	2.88E+04
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)	0.00E+00
g. Data Complete?	NO
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)	0.00E+00
i. Data Complete?	NO
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)	2.88E+04

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Arsenic	< 2	NO	3.1E+01	ppm
Barium	< 2	NO	4.0E+02	ppm
Chromium	< 2	NO	1.7E+02	ppm
Manganese	< 2	NO	2.0E+00	ppm

PREscore 1.0 - PRESCORE.TCL File 12/23/91
WASTE QUANTITY
Wisconsin Steel - 04/26/93

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1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: lagoon

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

PREscore 1.0 - PRESCORE.TCL File 12/23/91

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WASTE QUANTITY

Wisconsin Steel - 04/26/93

2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID	lagoon
b. Source Type	Surface Impoundment
c. Secondary Source Type	N.A.
d. Source Volume (yd3) Source Area (ft2)	0.00 600.00
e. Source Volume/Area Value	4.62E+01
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)	0.00E+00
g. Data Complete?	NO
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)	0.00E+00
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k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)	4.62E+01

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
PCBs	< 2	YES	3.0E+00	ppm

PREscore 1.0 - PRESCORE.TCF File 12/23/91

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WASTE QUANTITY

Wisconsin Steel - 04/26/93

3. SITE HAZARDOUS WASTE QUANTITY SUMMARY

No. Source ID	Migration Pathways	Vol. or Area Value (2e)	Constituent or Wastestream Value (2f,2h)	Hazardous Waste Qty. Value (2k)
1 cont. soil	SW-SE-A	7.69E+01	0.00E+00	7.69E+01
2 waste pile	GW-SW-SE-A	2.88E+04	0.00E+00	2.88E+04
3 lagoon	CW-SW-SE-A	4.62E+01	0.00E+00	4.62E+01

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WASTE QUANTITY

Wisconsin Steel - 04/26/93

4. PATHWAY HAZARDOUS WASTE QUANTITY AND WASTE CHARACTERISTICS SUMMARY TABLE

Migration Pathway	Contaminant Values		HWQVs*	WCVs**
Ground Water	Toxicity/Mobility	1.00E+03	10000	56
SW: Overland Flow, DW	Tox./Persistence	1.00E+04	10000	100
SW: Overland Flow, HFC	Tox./Persis./Bioacc.	5.00E+08	10000	1000
SW: Overland Flow, Env	Etox./Persis./Bioacc.	5.00E+08	10000	1000
SW: GW to SW, DW	Tox./Persistence	4.00E+02	10000	32
SW: GW to SW, HFC	Tox./Persis./Bioacc.	5.00E+06	10000	320
SW: GW to SW, Env	Etox./Persis./Bioacc.	2.00E+06	10000	320
Soil Exposure: Resident	Toxicity	1.00E+04	10000	100
Soil Exposure: Nearby	Toxicity	1.00E+04	10000	100
Air	Toxicity/Mobility	2.00E-01	10000	6

* Hazardous Waste Quantity Factor Values

** Waste Characteristics Factor Category Values

Note: SW = Surface Water
 GW = Ground Water
 DW = Drinking Water Threat
 HFC = Human Food Chain Threat
 Env = Environmental Threat

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 GROUND WATER MIGRATION PATHWAY SCORESHEET
 Wisconsin Steel - 04/26/93

PAGE: 1

GROUND WATER MIGRATION PATHWAY Factor Categories & Factors	Maximum Value	Value Assigned
Likelihood of Release to an Aquifer Aquifer: glacial till		
1. Observed Release	550	550
2. Potential to Release		
2a. Containment	10	10
2b. Net Precipitation	10	0
2c. Depth to Aquifer	5	5
2d. Travel Time	35	35
2e. Potential to Release [lines 2a(2b+2c+2d)]	500	400
3. Likelihood of Release	550	550
Waste Characteristics		
4. Toxicity/Mobility	*	1.00E+03
5. Hazardous Waste Quantity	*	10000
6. Waste Characteristics	100	56
Targets		
7. Nearest Well	50	0.00E+00
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	0.00E+00
8d. Population (lines 8a+8b+8c)	**	0.00E+00
9. Resources	5	0.00E+00
10. Wellhead Protection Area	20	0.00E+00
11. Targets (lines 7+8d+9+10)	**	0.00E+00
12. Targets (including overlaying aquifers)	**	0.00E+00
13. Aquifer Score	100	0.00
GROUND WATER MIGRATION PATHWAY SCORE (Sgw)	100	0.00

* Maximum value applies to waste characteristics category.
 ** Maximum value not applicable.

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 SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET
 Wisconsin Steel - 04/26/93

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors DRINKING WATER THREAT	Maximum Value	Value Assigned
Likelihood of Release		
1. Observed Release	550	550
2. Potential to Release by Overland Flow		
2a. Containment	10	10
2b. Runoff	25	0
2c. Distance to Surface Water	25	25
2d. Potential to Release by Overland Flow [lines 2a(2b+2c)]	500	250
3. Potential to Release by Flood		
3a. Containment (Flood)	10	10
3b. Flood Frequency	50	50
3c. Potential to Release by Flood (lines 3a x 3b)	500	500
4. Potential to Release (lines 2d+3c)	500	500
5. Likelihood of Release	550	550
Waste Characteristics		
6. Toxicity/Persistence	*	1.00E+04
7. Hazardous Waste Quantity	*	10000
8. Waste Characteristics	100	100
Targets		
9. Nearest Intake	50	0.00E+00
10. Population		
10a. Level I Concentrations	**	0.00E+00
10b. Level II Concentrations	**	0.00E+00
10c. Potential Contamination	**	0.00E+00
10d. Population (lines 10a+10b+10c)	**	0.00E+00
11. Resources	5	0.00E+00
12. Targets (lines 9+10d+11)	**	0.00E+00
13. DRINKING WATER THREAT SCORE	100	0.00

* Maximum value applies to waste characteristics category.
 ** Maximum value not applicable.

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 SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET
 Wisconsin Steel - 04/26/93

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors HUMAN FOOD CHAIN THREAT	Maximum Value	Value Assigned
Likelihood of Release		
14. Likelihood of Release (same as line 5)	550	550
Waste Characteristics		
15. Toxicity/Persistence/Bioaccumulation	*	5.00E+08
16. Hazardous Waste Quantity	*	10000
17. Waste Characteristics	1000	1000
Targets		
18. Food Chain Individual	50	4.50E+01
19. Population		
19a. Level I Concentrations	**	0.00E+00
19b. Level II Concentrations	**	3.00E-02
19c. Pot. Human Food Chain Contamination	**	0.00E+00
19d. Population (lines 19a+19b+19c)	**	3.00E-02
20. Targets (lines 18+19d)	**	4.50E+01
21. HUMAN FOOD CHAIN THREAT SCORE	100	100.00

* Maximum value applies to waste characteristics category.

** Maximum value not applicable.

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 SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET
 Wisconsin Steel - 04/26/93

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors ENVIRONMENTAL THREAT	Maximum Value	Value Assigned
Likelihood of Release		
22. Likelihood of Release (same as line 5)	550	550
Waste Characteristics		
23. Ecosystem Toxicity/Persistence/Bioacc.	*	5.00E+08
24. Hazardous Waste Quantity	*	10000
25. Waste Characteristics	1000	1000
Targets		
26. Sensitive Environments		
26a. Level I Concentrations	**	0.00E+00
26b. Level II Concentrations	**	0.00E+00
26c. Potential Contamination	**	0.00E+00
26d. Sensitive Environments (lines 26a+26b+26c)	**	0.00E+00
27. Targets (line 26d)	**	0.00E+00
28. ENVIRONMENTAL THREAT SCORE	60	0.00
29. WATERSHED SCORE	100	100.00
30. SW: OVERLAND/FLOOD COMPONENT SCORE (Sof)	100	100.00

* Maximum value applies to waste characteristics category.
 ** Maximum value not applicable.

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 GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET
 Wisconsin Steel - 04/26/93

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors DRINKING WATER THREAT	Maximum Value	Value Assigned
Likelihood of Release to Aquifer Aquifer: glacial till		
1. Observed Release	550	550
2. Potential to Release		
2a. Containment	10	10
2b. Net Precipitation	10	0
2c. Depth to Aquifer	5	5
2d. Travel Time	35	35
2e. Potential to Release [lines 2a(2b+2c+2d)]	500	400
3. Likelihood of Release	550	550
Waste Characteristics		
4. Toxicity/Mobility/Persistence	*	4.00E+02
5. Hazardous Waste Quantity	*	10000
6. Waste Characteristics	100	32
Targets		
7. Nearest Intake	50	0.00E+00
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	0.00E+00
8d. Population (lines 8a+8b+8c)	**	0.00E+00
9. Resources	5	0.00E+00
10. Targets (lines 7+8d+9)	**	0.00E+00
11. DRINKING WATER THREAT SCORE	100	0.00

* Maximum value applies to waste characteristics category.
 ** Maximum value not applicable.

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 GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET
 Wisconsin Steel - 04/26/93

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors HUMAN FOOD CHAIN THREAT	Maximum Value	Value Assigned
Likelihood of Release		
12. Likelihood of Release (same as line 3)	550	550
Waste Characteristics		
13. Toxicity/Mobility/Persistence/Bioacc.	*	5.00E+06
14. Hazardous Waste Quantity	*	10000
15. Waste Characteristics	1000	320
Targets		
16. Food Chain Individual	50	4.50E+01
17. Population		
17a. Level I Concentrations	**	0.00E+00
17b. Level II Concentrations	**	3.00E-02
17c. Pot. Human Food Chain Contamination	**	0.00E+00
17d. Population (lines 17a+17b+17c)	**	3.00E-02
18. Targets (lines 16+17d)	**	4.50E+01
19. HUMAN FOOD CHAIN THREAT SCORE	100	96.06

* Maximum value applies to waste characteristics category.
 ** Maximum value not applicable.

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 GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET
 Wisconsin Steel - 04/26/93

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors ENVIRONMENTAL THREAT	Maximum Value	Value Assigned
Likelihood of Release		
20. Likelihood of Release (same as line 3)	550	550
Waste Characteristics		
21. Ecosystem Tox./Mobility/Persist./Bioacc.	*	2.00E+06
22. Hazardous Waste Quantity	*	10000
23. Waste Characteristics	1000	320
Targets		
24. Sensitive Environments		
24a. Level I Concentrations	**	0.00E+00
24b. Level II Concentrations	**	0.00E+00
24c. Potential Contamination	**	0.00E+00
24d. Sensitive Environments (lines 24a+24b+24c)	**	0.00E+00
25. Targets (line 24d)	**	0.00E+00
26. ENVIRONMENTAL THREAT SCORE	60	0.00
27. WATERSHED SCORE	100	96.06
28. SW: GW to SW COMPONENT SCORE (Sgs)	100	96.06

* Maximum value applies to waste characteristics category.
 ** Maximum value not applicable.

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 SOIL EXPOSURE PATHWAY SCORESHEET
 Wisconsin Steel - 04/26/93

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SOIL EXPOSURE PATHWAY Factor Categories & Factors RESIDENT POPULATION THREAT	Maximum Value	Value Assigned
Likelihood of Exposure		
1. Likelihood of Exposure	550	550
Waste Characteristics		
2. Toxicity	*	1.00E+04
3. Hazardous Waste Quantity	*	10000
4. Waste Characteristics	100	100
Targets		
5. Resident Individual	50	4.50E+01
6. Resident Population		
6a. Level I Concentrations	**	0.00E+00
6b. Level II Concentrations	**	1.00E+02
6c. Resident Population (lines 6a+6b)	**	1.00E+02
7. Workers	15	5.00E+00
8. Resources	5	0.00E+00
9. Terrestrial Sensitive Environments	***	0.00E+00
10. Targets (lines 5+6c+7+8+9)	**	1.50E+02
11. RESIDENT POPULATION THREAT SCORE	**	8.25E+06

* Maximum value applies to waste characteristics category.

** Maximum value not applicable.

*** No specific maximum value applies, see HRS for details.

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 SOIL EXPOSURE PATHWAY SCORESHEET
 Wisconsin Steel - 04/26/93

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SOIL EXPOSURE PATHWAY Factor Categories & Factors NEARBY POPULATION THREAT	Maximum Value	Value Assigned
Likelihood of Exposure		
12. Attractiveness/Accessibility	100	1.00E+01
13. Area of Contamination	100	1.00E+02
14. Likelihood of Exposure	500	1.25E+02
Waste Characteristics		
15. Toxicity	*	1.00E+04
16. Hazardous Waste Quantity	*	10000
17. Waste Characteristics	100	100
Targets		
18. Nearby Individual	1	0.00E+00
19. Population Within 1 Mile	**	0.00E+00
20. Targets (lines 18+19)	**	0.00E+00
21. NEARBY POPULATION THREAT SCORE	**	0.00E+00
SOIL EXPOSURE PATHWAY SCORE (Ss)	100	100.00

* Maximum value applies to waste characteristics category.
 ** Maximum value not applicable.

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 AIR PATHWAY SCORESHEET
 Wisconsin Steel - 04/26/93

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AIR MIGRATION PATHWAY Factor Categories & Factors	Maximum Value	Value Assigned
Likelihood of Release		
1. Observed Release	550	0
2. Potential to Release		
2a. Gas Potential to Release	500	0
2b. Particulate Potential to Release	500	280
2c. Potential to Release	500	280
3. Likelihood of Release	550	280
Waste Characteristics		
4. Toxicity/Mobility	*	2.00E-01
5. Hazardous Waste Quantity	*	10000
6. Waste Characteristics	100	6
Targets		
7. Nearest Individual	50	0.00E+00
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	0.00E+00
8d. Population (lines 8a+8b+8c)	**	0.00E+00
9. Resources	5	0.00E+00
10. Sensitive Environments		
10a. Actual Contamination	***	0.00E+00
10b. Potential Contamination	***	0.00E+00
10c. Sens. Environments (lines 10a+10b)	***	0.00E+00
11. Targets (lines 7+8d+9+10c)	**	0.00E+00
AIR MIGRATION PATHWAY SCORE (Sa)	100	0.00E+00

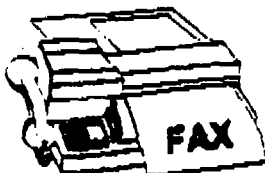
* Maximum value applies to waste characteristics category.

** Maximum value not applicable.

*** No specific maximum value applies, see HRS for details.



ILLINOIS
ENVIRONMENTAL
PROTECTION AGENCY



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SPRINGFIELD, IL 62794-9276

REMEDIAL PROJECT MANAGEMENT SECTION

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SITE INSPECTION WORK PLAN**FOR****Wisconsin Steel****PREPARED BY**

**PRE-REMEDIAL UNIT
DIVISION OF LAND POLLUTION CONTROL
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
2200 CHURCHILL ROAD
SPRINGFIELD, ILLINOIS 62794**

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 - General Information
 - The Assignment
 - Site Description
 - Site History
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 - Physical Hazards
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 - Personal Protection
 - Emergency Information
- III. FIELD ACTIVITIES**
 - Team Assignments
 - Field Work Proposed
- IV. SAMPLING**
 - Procedures
 - Locations
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- V. ATTACHMENTS**
 - Documents Generated
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I. SITE INFORMATIONI. GENERAL

Site Name: Wisconsin Steel ILD# 000849737

Site Location: Chicago, Illinois LPC# 0316510002

Workplan prepared by:

Scott Davis

Estimated inspection date: 4/27-29/93 Workplan approved by:

II. THE ASSIGNMENT (briefly describe the objectives of the inspection and how they are going to be accomplished).

The purpose of a this Site Inspection is to document site contamination, document the migration pathways contaminants may be transported, and to document affected targets. Soil, sediment, groundwater, and surface water samples will be collected during the inspection for analysis. The objectives for the Site Inspection performed at the Wisconsin Steel site are to attain the necessary information to score the facility for the NPL as soon as possible.

III. SITE DESCRIPTION (briefly describe the site, including location, unique geological features, source(s) of contamination, methods of disposal and current status of activities).

Wisconsin Steel is located at the intersection of Torrence Street and 106th Street. The facility operated an integrated steel mill operating from approximately 1877 until 1980. Production facilities used at Wisconsin Steel include a coke battery, blast furnaces, steel production open hearth furnaces and steel finishing blooming and merchant mills.

The site is currently abandoned with only a few original building still standing. There are several piles of rubble mixed with soil dispersed over the site. The Calumet River borders the site on the east side with two slips, for barge loading, extending into Wisconsin Steel property.

Slag from the facility was taken to property north of the main facility and piled. Currently the pile is approximately 1500 feet long and approximately 250 feet wide.

IV. SITE HISTORY (briefly describe the history of the site including previous owners, reported injuries, complaints, gov't action).

Wisconsin Steel was in operation from approximately 1877 until 1980. There have been several financial organizations involved in owning and operating the facility. The more significant are International Harvester (now Navistar Corp.), Envirodyne Corporation, and the Economic Development Administration (EDA). International Harvester owned and operated the facility until 1977 when it sold the majority of the facility to the Envirodyne Corporation. The Economic Development Administration became involved by guaranteeing a loan to the Envirodyne Corp. On March 31, 1980, Envirodyne filed for bankruptcy and EDA took control of the facility and shutdown the facility.

Currently the EDA owns 90% of the facility and International Harvester (Navistar) owns 10%.

II. SAFETY CONSIDERATIONS

I. PHYSICAL HAZARDS AT SITE (briefly describe any physical hazards that the inspection team may encounter at the site).

Physical hazards at the site include possible unstable surfaces around the excavations and debris piles. There is also a danger of falling into the Calumet River when taking samples from the river.

II. CHEMICAL HAZARDS AT SITE (briefly identify those chemicals that are known or are suspected to be present, include their state and physical characteristics).

There are several contaminants that have been found on site. Metals have been found in the soil and in sediments in excavations. These metals include lead, zinc, mercury, cyanide, sulfide, copper, manganese, chromium and arsenic. PCBs have also been found on-site. Semivolatiles have been found in the soils including acenaphthylene, acenaphthene, fluorene, phenanthrene anthracene and several others. Volatiles have also been found on-site in groundwater and sediment including, but not limited to, benzene, toluene and xylene.

III. DERMAL AND RESPIRATORY PROTECTION (identify the level of personal protection that will be used, including anticipated modifications).

A cyanide meter, sulfide meter and a hnu will be used as air monitoring at all times while the sampling team is on the site. When sampling soil and groundwater, samplers will be in Level C with potential upgrade to Level B in conditions arise.

Level D.....Background

Level C.....Background to 5 mu

Level B.....6 to 50 mu

Level A.....51 and above

IV. EMERGENCY INFORMATION

Nearest Hospital: S. Chicago Comm. Hosp. Phone 312/978-2000

Hospital Location: corner of 93rd & Yates

Ambulance Service: S. Chicago Comm. Hosp. Phone 312/978-2000

Fire Service: Chicago Fire Dept. Phone 911

Police: Chicago Police Dept. Phone 911

III. FIELD ACTIVITIES

I. TEAM ASSIGNMENTS

<u>Name</u>	<u>Responsibility</u>
<u>Scott Davis</u>	<u>Project Manager</u>
<u>Ken Corkill</u>	<u>Sampler</u>
<u>Pete Sorensen</u>	<u>Sampler</u>
<u>Bruce Everett</u>	<u>Sampler</u>

II. FIELD WORK PROPOSED (check all that apply)

<u>Activity</u>	<u>Procedures</u>
<u>X</u> Ambient Air Sampling (OVA, HNU)	IEPA Methods Manual pp.19-23
<u>X</u> Groundwater Sampling	IEPA Methods Manual pp.1-5
<u>X</u> Surface Water Sampling	IEPA Methods Manual pp.6-10
<u>X</u> Soil/Sediment Sampling	IEPA Methods Manual pp.13-18

<u> </u> Tap Water Sampling	IEPA Methods Manual pp.11-12
<u> </u> Slope Determinations	IEPA Methods Manual pp.24-25
<u> </u> Water Level Measurements	IEPA Methods Manual p.31
<u> X </u> Perimeter Survey	IEPA Methods Manual p.33
<u> X </u> Site Inspection	IEPA Methods Manual pp.34-39
<u> </u> Soil Borings/Well Installation	IEPA Methods Manual pp.26-30
<u> X </u> Public Interviews	IEPA Methods Manual p.40
<u> X </u> Decontamination Procedures	IEPA Methods Manual pp.41-56

IV. SAMPLING

I. PROCEDURES (briefly describe the procedures the inspection team will employ in their collection of environmental samples).

All samples will be collected in accordance with the Illinois Environmental Protection Agency's Site Inspection QAPP. Soil/sediment samples will be collected with stainless steel trowels, groundwater samples will be taken with teflon bailers and surface water samples will be taken using pond samplers.

II. LOCATION OF SAMPLES (identify the number of samples, their type and their location. The attached map should identify these locations).

<u>Sample #</u>	<u>Type</u>	<u>Location</u>
X101	soil	park
X102	soil	park
X103	soil	on-site
X104	soil	on-site
X105	soil	on-site
X106	soil	on-site
X107	soil	on-site
X108	soil	on-site
X109	soil	on-site
X110	soil	on-site

X111	soil	on-site
X112	soil	on-site
X113	soil	on-site
X114	soil	on-site
X115	soil	on-site
X116	soil	on-site
X117	soil	pri. yard
X118	soil	pri. yard
X119	soil	pri. yard
X120	soil	pri. yard
X121	soil	pri. yard
X122	soil	pri. yard
X123	soil	pri. yard
X124	soil	pri. yard
X125	soil	pri. yard
X201	sediment	river
X202	sediment	river
X203	sediment	river
X204	sediment	river
X205	sediment	river
X206	sediment	river
X501	waste pile	slag pile
X502	waste pile	slag pile
G101	monit. well	on-site
G202	monit. well	on-site
S101	surf. water	river
S102	surf. water	river

S103	surf. water	river
S104	surf. water	river

III. ANALYTICAL SERVICES (identify the laboratory that will be performing the analysis of the samples taken at the site, include requested analysis).

The IEPA lab will be analyzing the samples . All samples will be analyzed for the Target Compound List for the exception of samples X117-X125 will not be sampled for volatiles.

ATTACHMENT I

RECORDS AND DOCUMENTATION (check the records or documents that will be generated during this project)

X Work Plan

X Safety Plan

X Sampling Plan

X Equipment Checklist

X Log Book

X Chain of Custody Record

X Sample Analysis Records

X Photographs

 Drilling Logs

X Correspondence

 Personal Interview Tapes of Transcripts

X Maps

X Instrument Calibration Records

X Procurement Documents

X Site Inspection Form (2070-13)

